

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (currently amended) A cable modem tuner comprising an upstream circuit for transmitting a data signal to a CATV (cable television) station, wherein

 said upstream circuit includes
 a gain controllable gain control circuit receiving said data signal,

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cont
 at least one power amplifying circuit power-amplifying the data signal having been gain controlled by said gain control circuit, and
 a control circuit for controlling transmission/interruption of said data signal.

2. (currently amended) A cable modem tuner comprising a receiving unit for receiving a down signal from a CATV (cable television) station, wherein

 said receiving unit includes
 an up converter for converting said down signal to a first intermediate frequency signal of lower higher frequency,

 a SAW filter for selecting the first intermediate frequency signal output from said up converter, and

 a down converter converting the first intermediate frequency signal selected by said SAW filter to a second intermediate frequency signal of lower frequency for output, and

said SAW filter is formed of an oscillation circuit including a print coil or an air core coil.

3. (original) The cable modem tuner according to claim 2,
wherein

 said up converter includes
 a broadband high frequency amplifying circuit having a reception
 frequency band, for amplifying said down signal,
 a gain variable broadband variable gain amplifying circuit
 receiving the down signal from said broad band high frequency
 amplifying circuit,
 a local oscillation circuit outputting a local oscillation
 signal having higher frequency than said down signal, and
 a mixer circuit mixing the down signal output from said
 broadband variable gain amplifying circuit with the local oscillation
 signal output from said local oscillation circuit.

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4. (original) The cable modem tuner according to claim 2,
wherein

 said down converter includes a first intermediate frequency
 amplifying circuit amplifying the first intermediate frequency signal
 selected by said filter,
 a local oscillation circuit outputting a local oscillation
 signal having lower frequency than said first intermediate frequency
 signal,
 a mixer circuit mixing the first intermediate frequency signal
 output from said first intermediate frequency amplifying circuit with
 the local oscillation signal output from said local oscillation
 circuit and outputting a second intermediate frequency signal,

a second intermediate frequency amplifying circuit amplifying the second intermediate frequency signal output from said mixer circuit, and

a filter for selecting said second intermediate frequency signal output from said second intermediate frequency amplifying circuit.

5. (original) The cable modem tuner according to claim 4, further comprising

a gain variable intermediate frequency gain amplifying circuit receiving the second intermediate frequency signal from said second intermediate frequency amplifying circuit.

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6. (canceled)

7. (currently amended) A cable modem tuner including an upstream circuit for transmitting a data signal to a CATV (Cable Television) station and a receiving unit for receiving a down signal from said CATV station, comprising:

a duplexer for branching the data signal to said CATV station and the down signal from said CATV station;

a return pass circuit outputting said data signal to said duplexer; and

a receiving unit receiving the down signal branched by said duplexer, wherein

said receiving unit includes

an up converter for converting said down signal to a first intermediate frequency signal of higher frequency,

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a SAW filter for selecting the first intermediate frequency signal
output from said up converter, and

a down converter converting the first intermediate frequency signal
selected by said SAW filter to a second intermediate frequency signal of
lower frequency for output, and

said SAW filter is formed of an oscillation circuit including a
print coil or an air core coil.
